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**Notice of Allowability**

Application No.

10/809,153

Examiner

Sean P. Shechtman

Applicant(s)

KOIKE ET AL.

Art Unit

2125

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/25/05.
2. ☒ The allowed claim(s) is/are 18-46. ✓
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

### DETAILED ACTION

1. Claims 18-46 are presented for examination. Claims 18-46 have been amended.

#### *Claim Objections*

2. Objection withdrawn in light of the amendment.

#### *Claim Rejections - 35 USC § 112*

3. Rejections withdrawn in light of the amendment.

#### *Claim Rejections - 35 USC § 102*

4. Rejections withdrawn in light of the amendment.

#### *Claim Rejections - 35 USC § 103*

5. Rejections withdrawn in light of the amendment.

#### *Allowable Subject Matter*

6. Claims 18-46 are allowed.

The following is an examiner's statement of reasons for allowance:

While AAPA teaches designating each manufacturing lot of a plurality of manufacturing lots containing a workpiece as a main objective to be managed and loading an specified number of manufacturing lot on a carrier so as to cause said workpieces contained in respective manufacturing lots to pass along a plurality of manufacturing process flows.

And, Akimoto teaches cassettes containing wafers to be processed under different conditions.

And, Conboy teaches management of automated material handling systems, wherein during processing the wafers are divided into lots or groupings of one or more wafers and a cassette is used to store one or more lots.

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Referring to claim 18, neither AAPA, Akimoto or Conboy, taken either alone or in obvious combination disclose a manufacturing managing method having all the claimed features of applicant's instant invention, specifically including: wafers of specific manufacturing lots already loaded on corresponding carriers are unloaded from the carriers and are mixed-loaded on a specific carrier to process wafers of the specific manufacturing lots in a specific in-process work step at different work conditions in a processing apparatus.

Referring to claim 30, neither AAPA, Akimoto or Conboy, taken either alone or in obvious combination disclose a manufacturing managing method having all the claimed features of applicant's instant invention, specifically including: a plurality of specific manufacturing lots of wafers requiring a specific in-process work step of each of a plurality of processing apparatuses are selected from manufacturing lots, and the wafers of the specific manufacturing lots already loaded on corresponding carriers are mix-loaded on a specific carrier.

Referring to claim 35, neither AAPA, Akimoto or Conboy, taken either alone or in obvious combination disclose a manufacturing managing method having all the claimed features of applicant's instant invention, specifically including: wafers of similar manufacturing lots already loaded on corresponding carriers are unloaded from the carriers and are mix-loaded on a specific carrier to process the wafers of the similar manufacturing lots in a specific in-process work step at the same work condition in a processing apparatus.

It is for these reasons that applicant's invention defines over the prior art of record. Claims 19-29, 31-34, and 36-46 depend from claims 18, 30, and 35 and are therefore also allowable.

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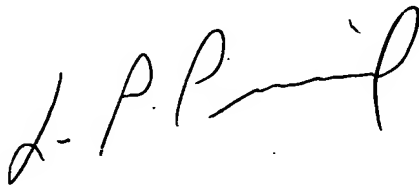
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

*Conclusion*

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sean P. Shechtman whose telephone number is (571) 272-3754. The examiner can normally be reached on 9:30am-6:00pm, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo P. Picard can be reached on (571) 272-3749. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



SPS

Sean P. Shechtman

September 15, 2005

**LEO PICARD  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100**